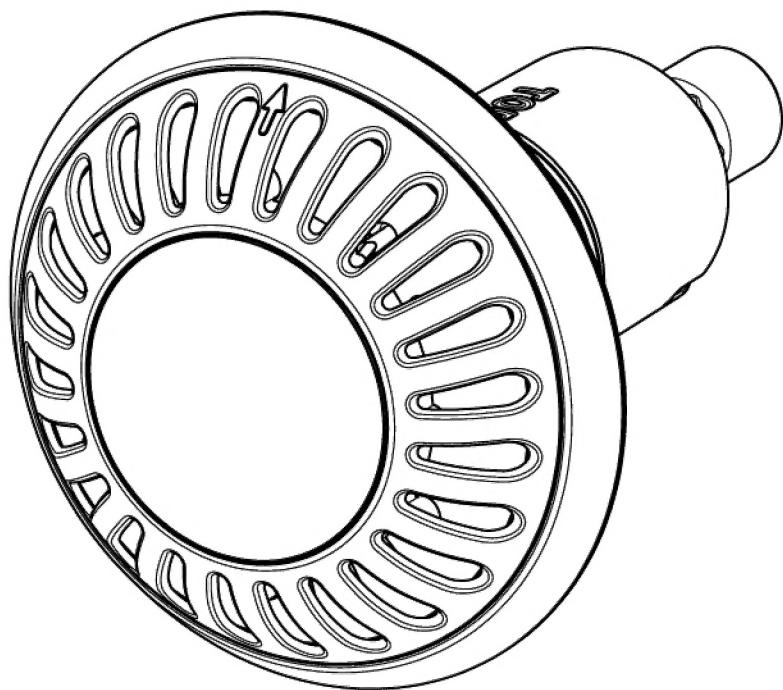


INSTALLATION & OWNER'S MANUAL

ULTRA COMPACT NICHE LIGHT



EMV

FOR VINYL POOLS

STORE THIS MANUAL IN A SAFE
PLACE FOR FUTURE REFERENCE

atom
emSERIES

CONTENTS

READ THIS FIRST	3
TOOLS REQUIRED	4
PRODUCT SUPPORT AND INFORMATION	4
INCLUDED PARTS (25VA SINGLE KIT)	5
INCLUDED PARTS (50VA DUAL KIT)	6
FINISHED INSTALLATION (DIAGRAM)	7
ASSEMBLY (STEPS 1-14)	8 - 14
EM-LIGHT REMOVAL (FROM NICHE)	15
EM-LIGHT ASSEMBLY (TO NICHE)	16
CONNECTIONS	18
TROUBLESHOOTING	21

READ THIS FIRST!

This booklet contains important information about the correct installation and handling of EM-series lights. **Please read this booklet carefully** before commencing installation to familiarise yourself with the included parts, accessories and correct installation procedures.

BEFORE YOU START:

- Supplied cable should not be modified. 20m cable is supplied as standard; 30m & 50m cable lengths are available to order from Spa Electrics or your distributor.
- Ensure that the lighting system is installed by a suitably qualified persons (e.g. registered pool builder and/or qualified electrician), in accordance with AS/NZS 3000:2007 standards.
- For safe and proper installation, ensure that only those parts supplied with the system are used.
- Maximum installation depth for EM-Series lights is 400mm
- All lights should be mounted in a location that is easily accessible without the need for entering or lowering the pool water.
- No less than 700mm cable must remain stored within the Niche to ensure the light can be accessed above the waterline. (Maximum cable within niche = 800mm)
- The EM series light can be mounted at any angle provided the installation conforms to the above items

CLEANING

- Only use warm water and a soft brush or cloth to clean EM-series lights. DO NOT use detergents or spirits as this can damage the light and void your warranty.

USE

- Do not operate light unless completely submerged in water.
- Operating the light for at least 15 minutes every week is advised (all year round).
- EM-series lights are designed for continuous (24/7) operation.
- EM-series lights are suited for both domestic and commercial installations.

WARNING

- The EM series light must only be powered by the supplied 12V AC Spa Electrics transformer.
- DO NOT use electronic or switch-mode transformers with EM-series lights. These transformers will damage the light and void your product warranty.
- **Pool chemicals & PH levels:** Due to the corrosive nature of unbalanced pool chemicals, Spa Electrics strongly recommend that your pool water is balanced prior to installing your pool lights or any plastic or stainless steel components, and tested weekly to maintain these levels. pH levels should be maintained between 7.2 – 7.6 at all times to ensure the longevity of these components.
 - > Failure to do so can result in chemical damage to the light housing and pool fittings, including stainless steel components.
 - > **Please note:** Lights or components found to have excessive chemical damage will not be covered under our manufacturer's warranty policy
- This light contains no user-serviceable parts; opening the light will void the product warranty.

TOOLS REQUIRED

MODEL: EMV

- > 65mm or 70mm Hole Saw
- > Silicon + caulking gun
- > Adjustable spanner ("shifter")
- > Phillips head (No 2) screw-driver
- > Box-cutter / knife
- > Flat-blade screwdriver (for EM-light removal)

IMPORTANT NOTE:

The use of power tools (such as 240v and cordless drills) during installation is **not** recommended as these devices can cause faults and damage to light components.

*Only use a powered drill in **Step 1 (Page 8)** when preparing the pool wall for light installation.*

All other installation steps should be carried out with manual tools only.

PRODUCT SUPPORT AND INFORMATION:

Phone: +61 3 9793 2299 (business hours)

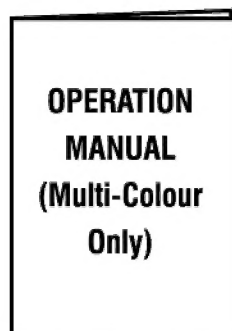
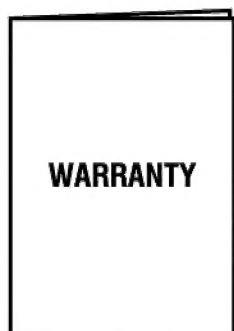
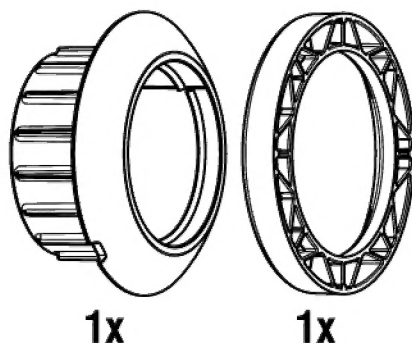
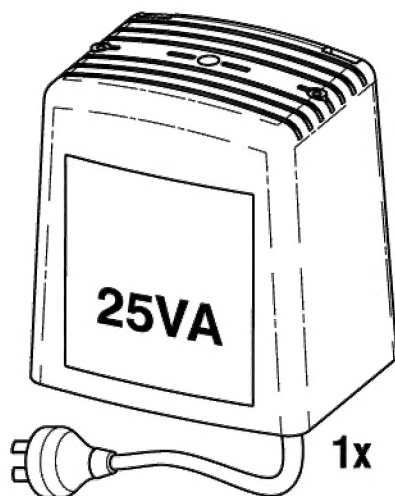
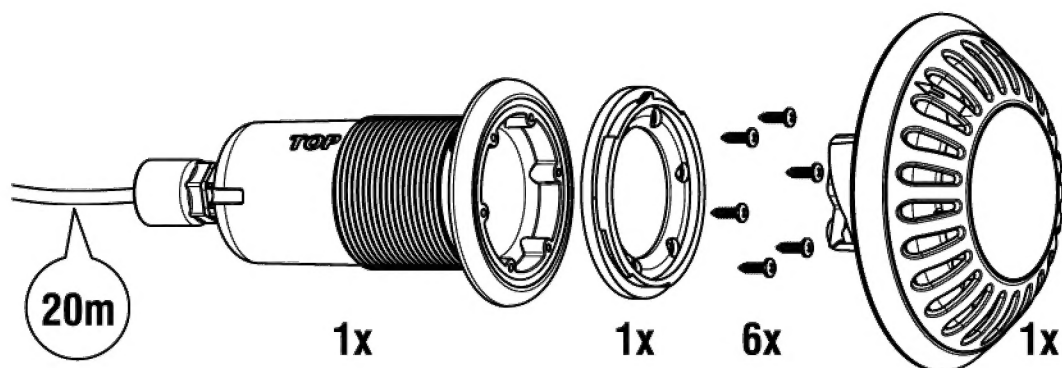
Email: info@spaelectrics.com.au (SALES enquiries)

Email: tech@spaelectrics.com.au (TECHNICAL support enquiries)

Web: www.spaelectrics.com.au

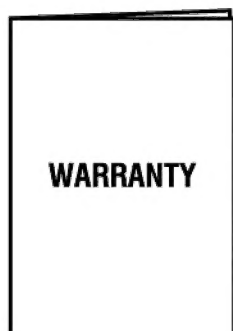
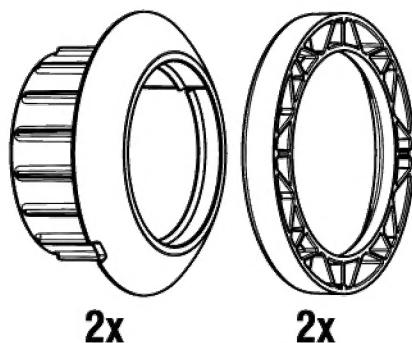
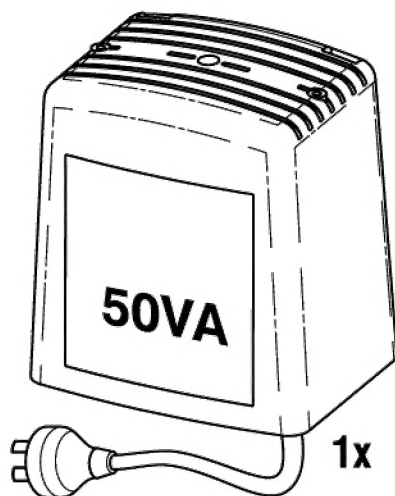
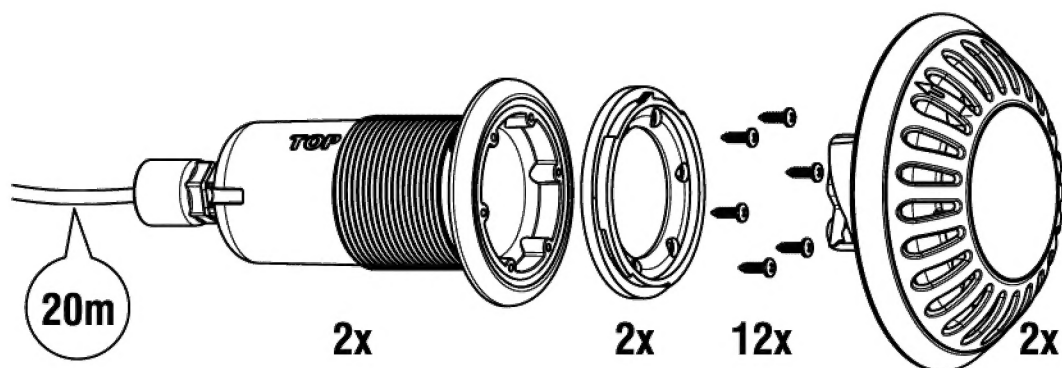
INCLUDED PARTS

MODEL: EMV - 25VA (SINGLE) KIT



INCLUDED PARTS

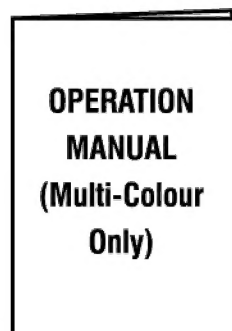
MODEL: EMV - 50VA (DUAL) KIT



1x



1x

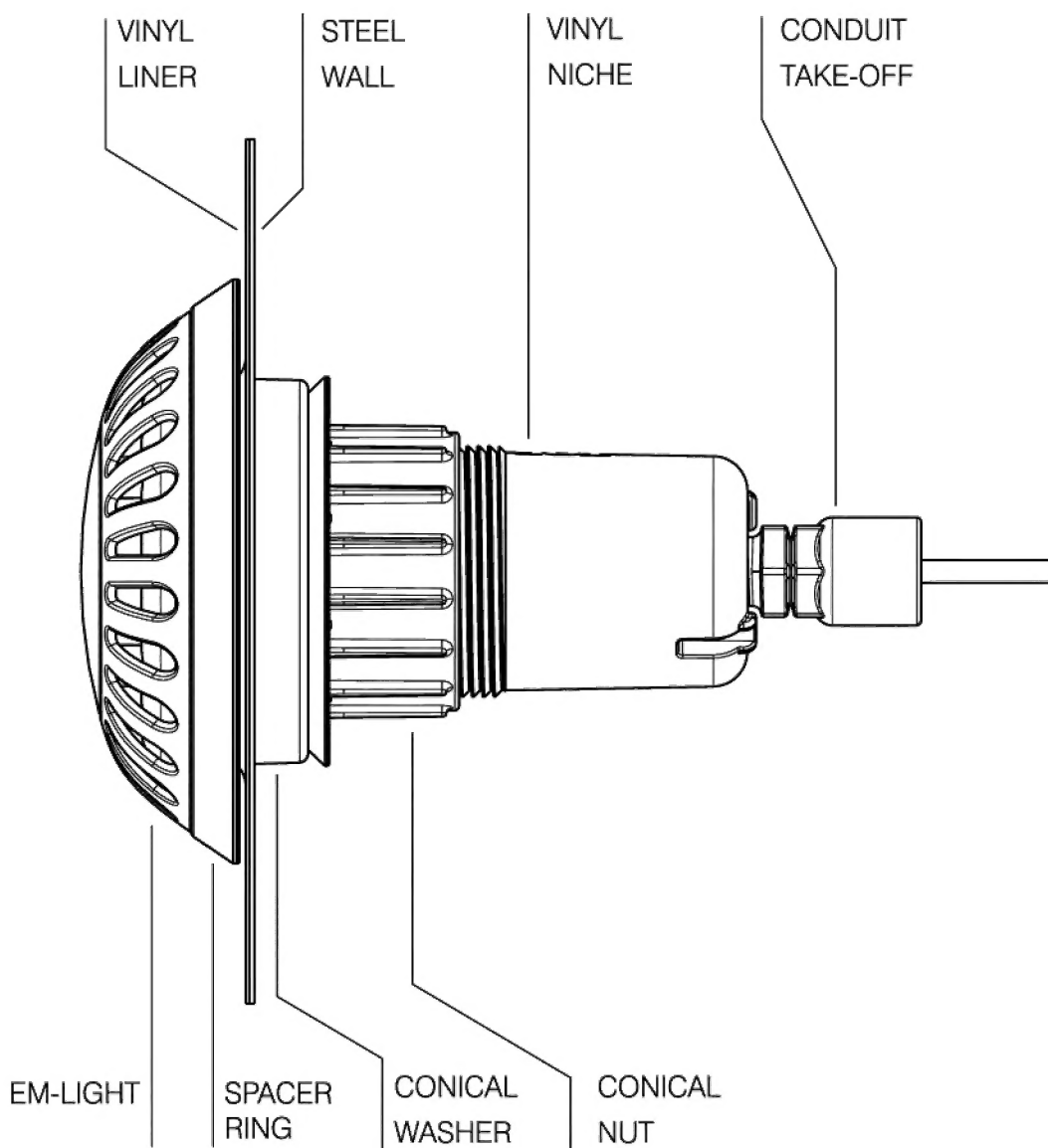


1x

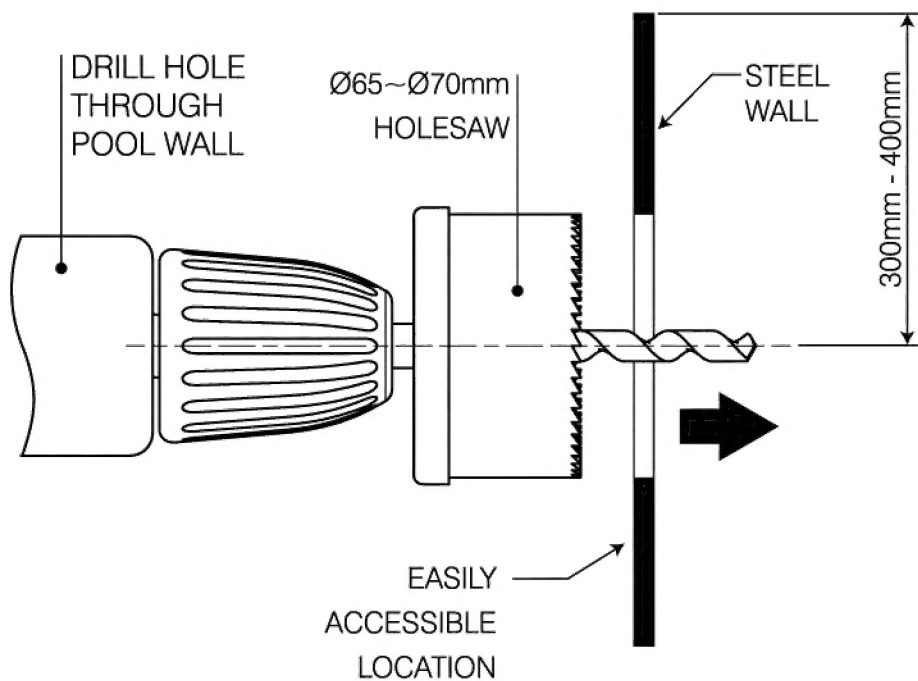
FINISHED INSTALLATION

7

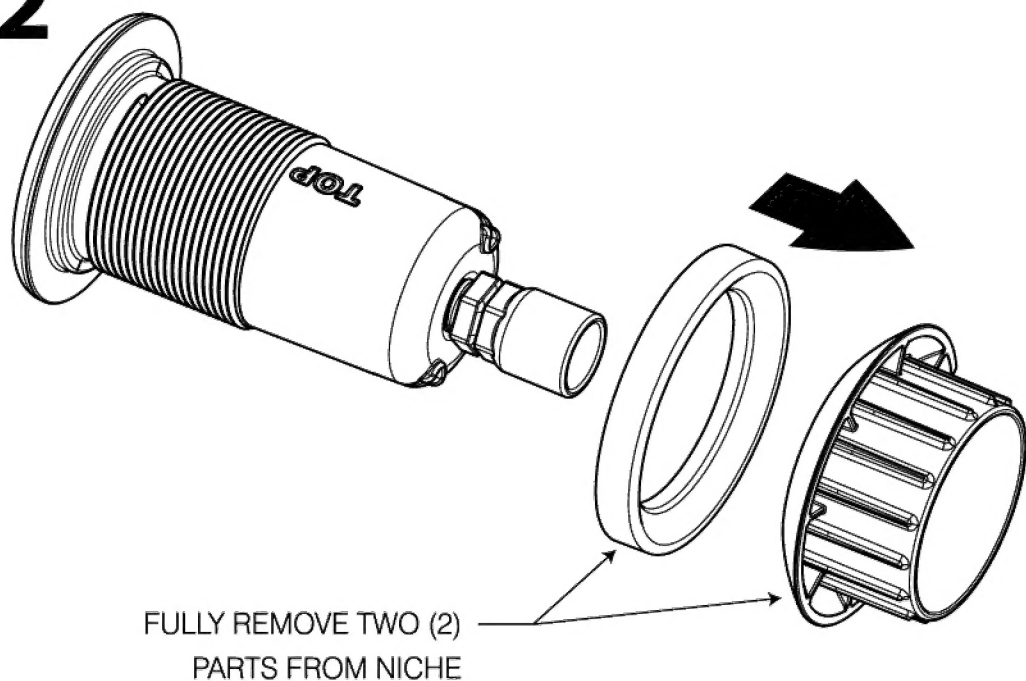
MODEL: EMV



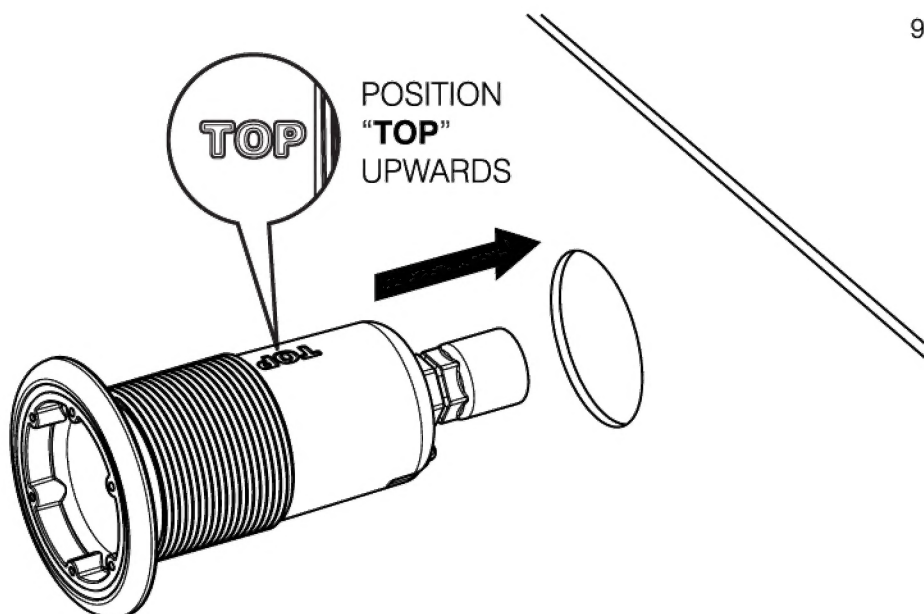
1



2

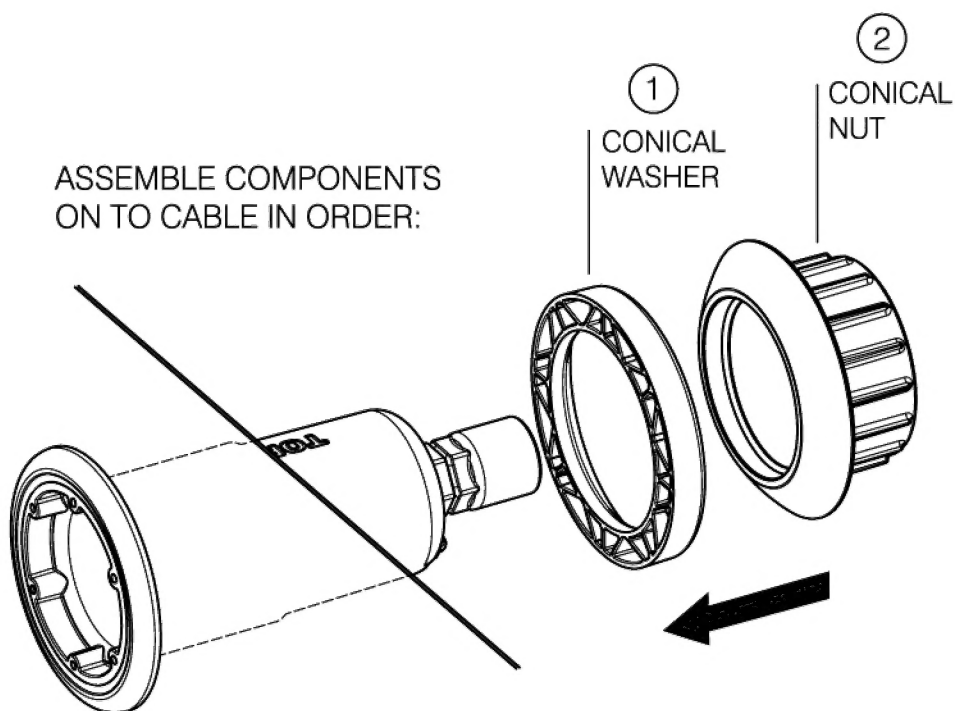


3

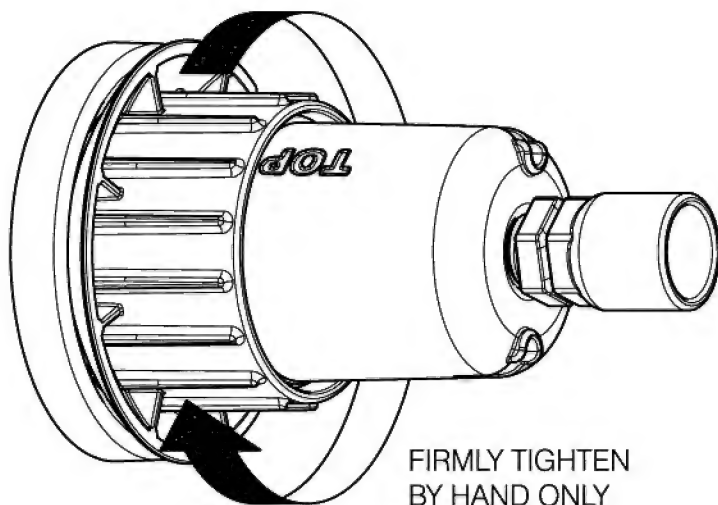


4

ASSEMBLE COMPONENTS
ON TO CABLE IN ORDER:

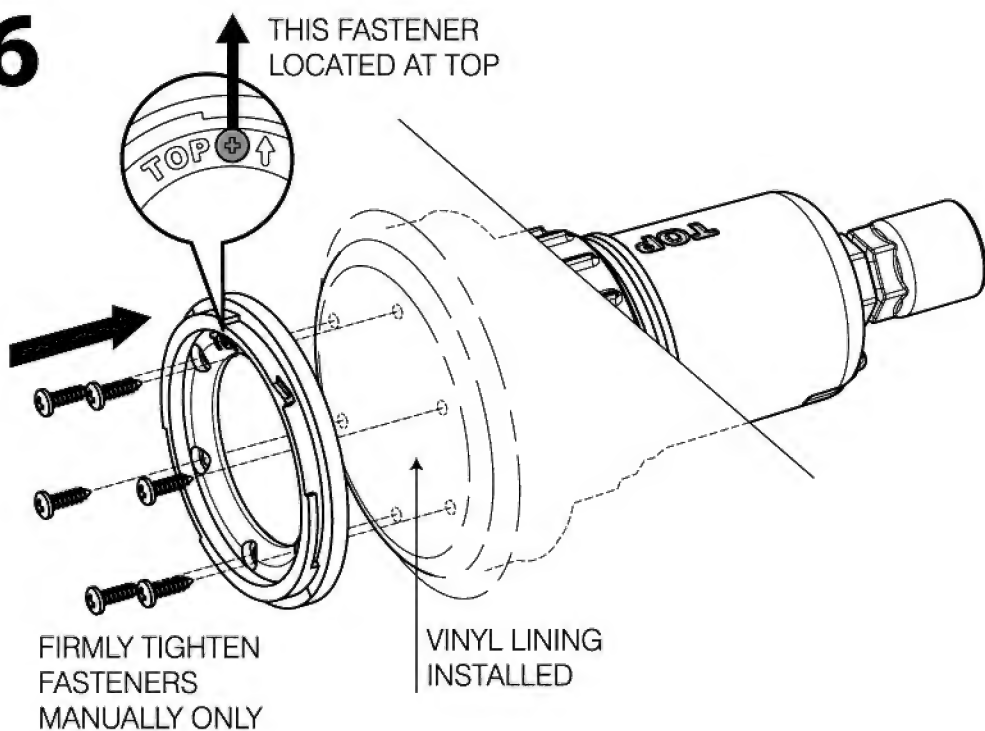


5

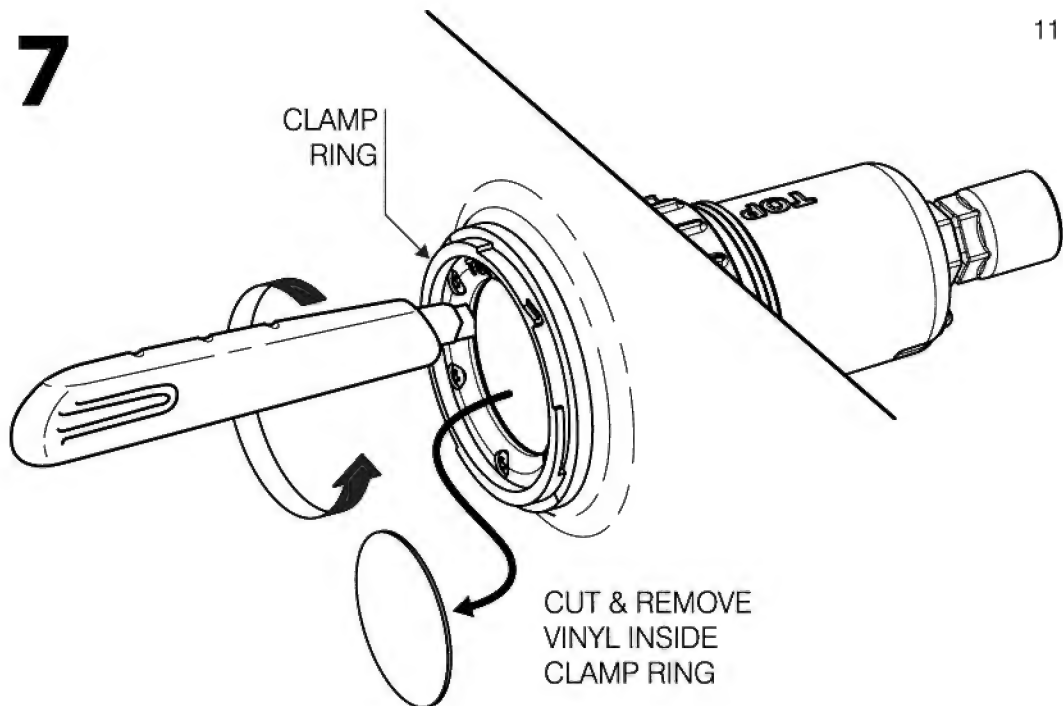


FIRMLY TIGHTEN
BY HAND ONLY

6

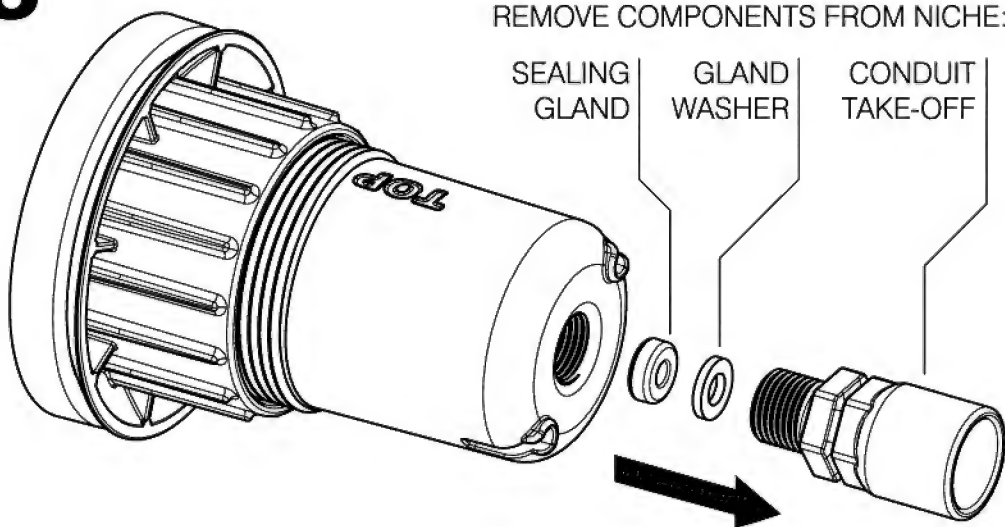


7

CLAMP
RING

8

REMOVE COMPONENTS FROM NICHE:

SEALING
GLANDGLAND
WASHERCONDUIT
TAKE-OFF

9

**MINIMUM
700mm**
CABLE INSIDE
NICHE

700mm

PULL CABLE
THROUGH
NICHE

12

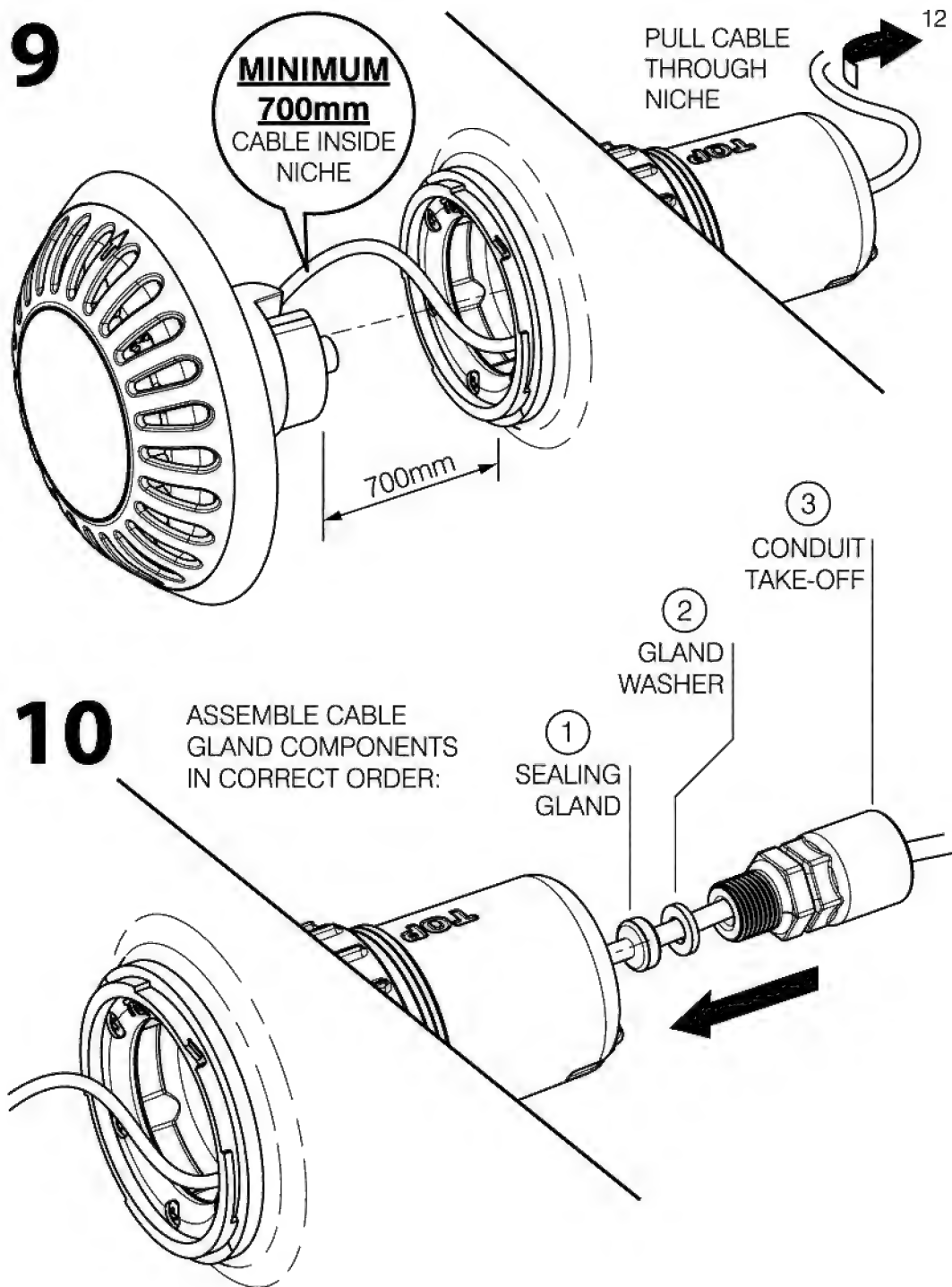
10

ASSEMBLE CABLE
GLAND COMPONENTS
IN CORRECT ORDER:

①
SEALING
GLAND

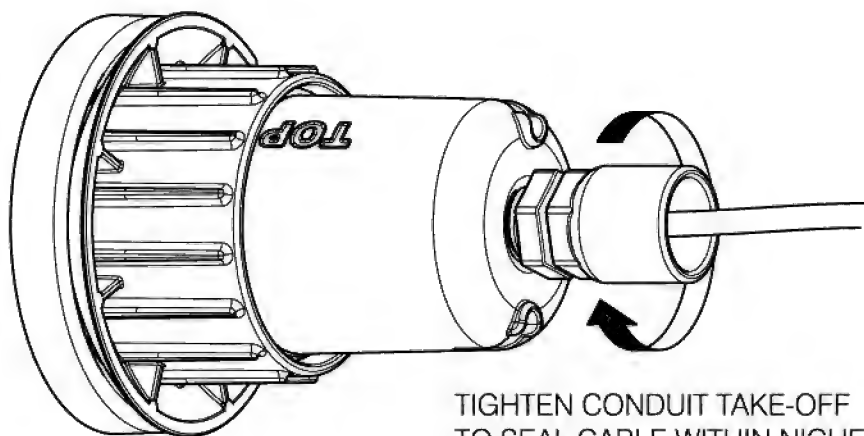
②
GLAND
WASHER

③
CONDUIT
TAKE-OFF

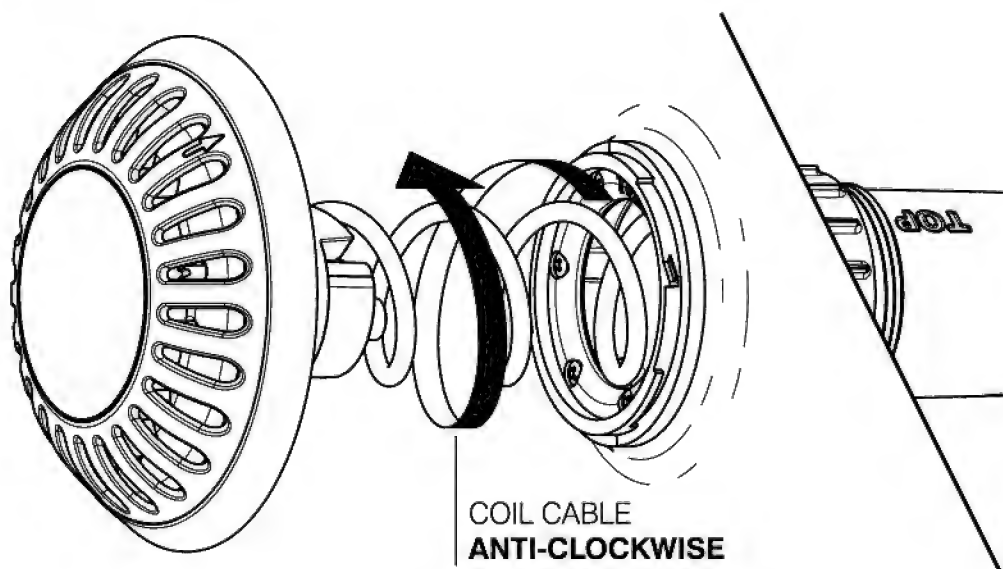


11

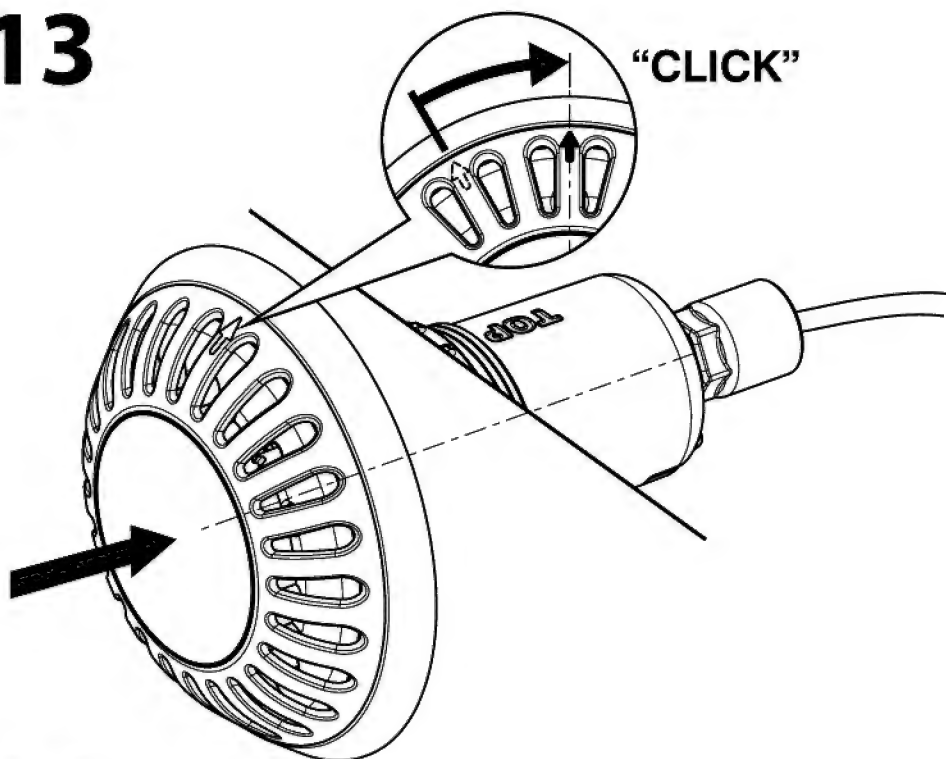
13



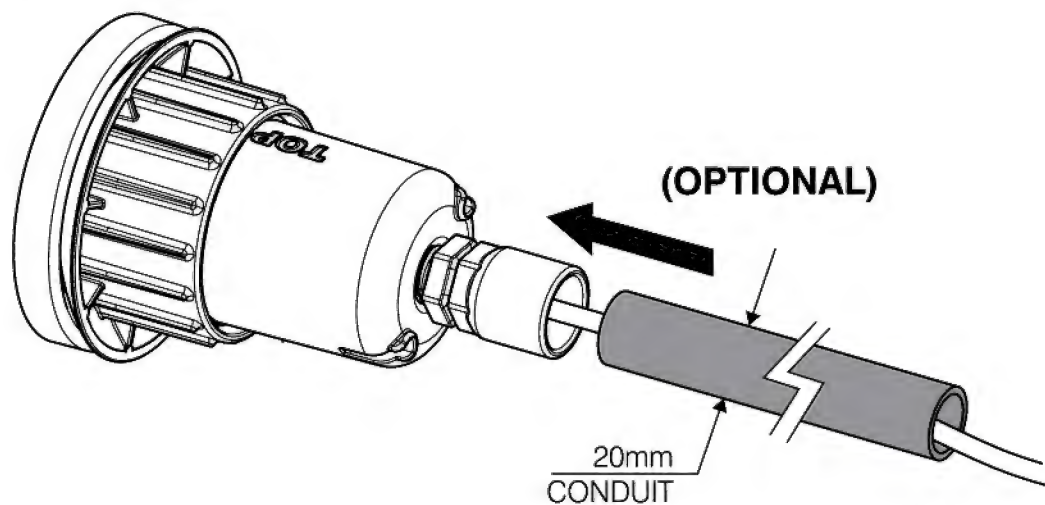
12



13



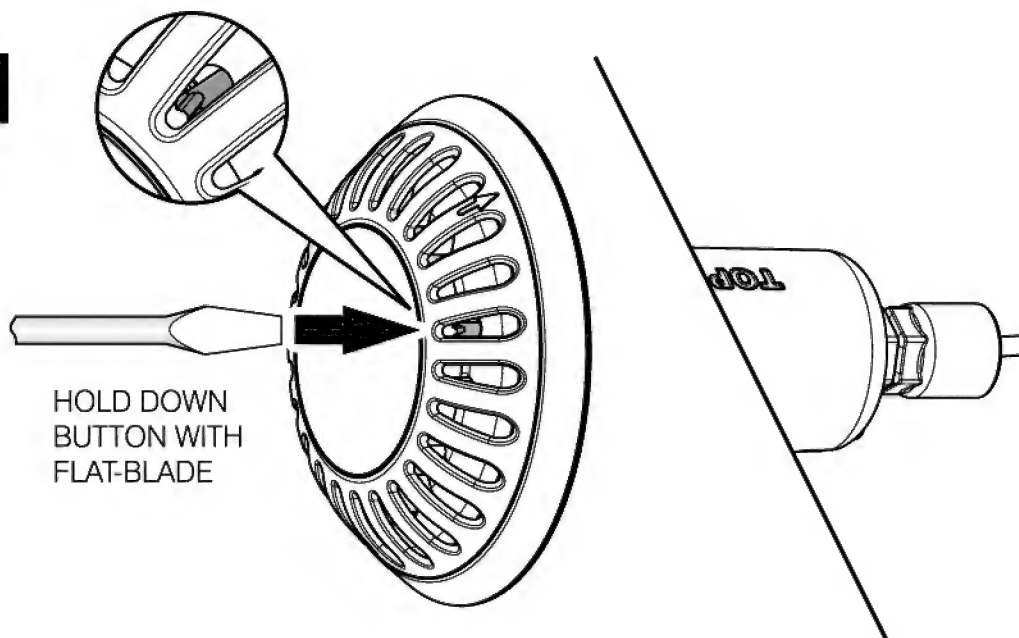
14



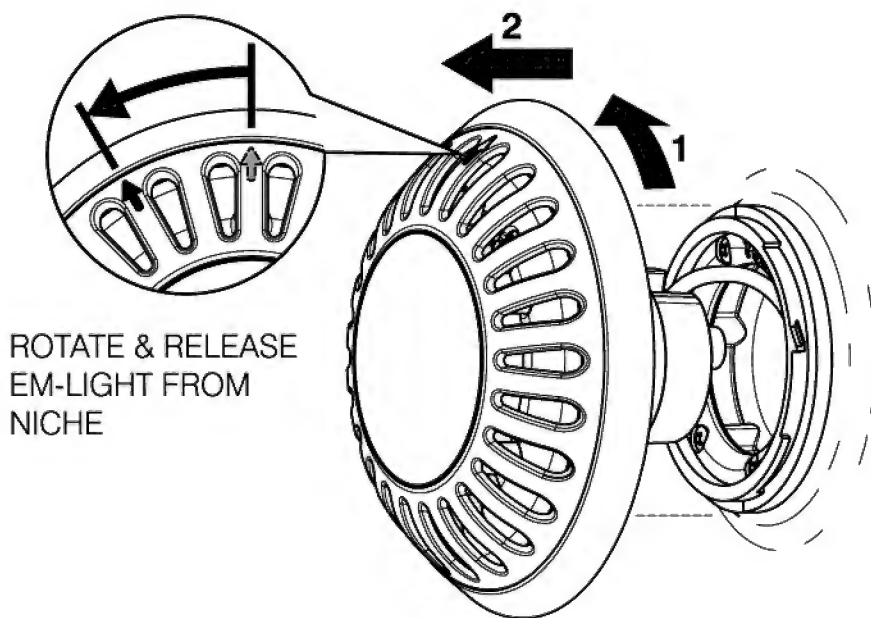
EM-LIGHT REMOVAL

MODEL: EMV

1



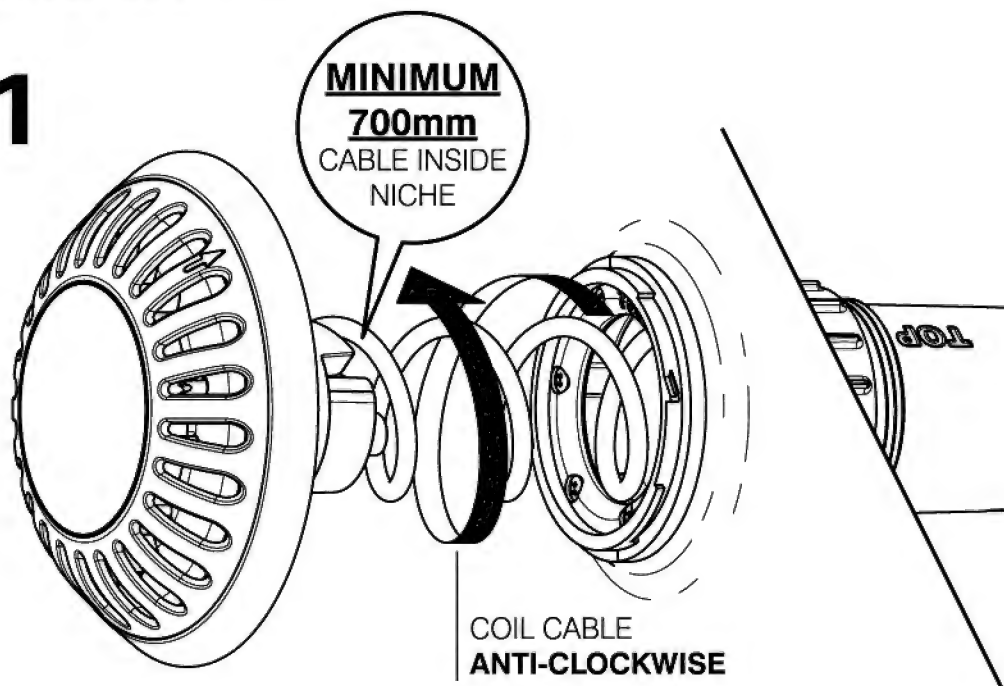
2



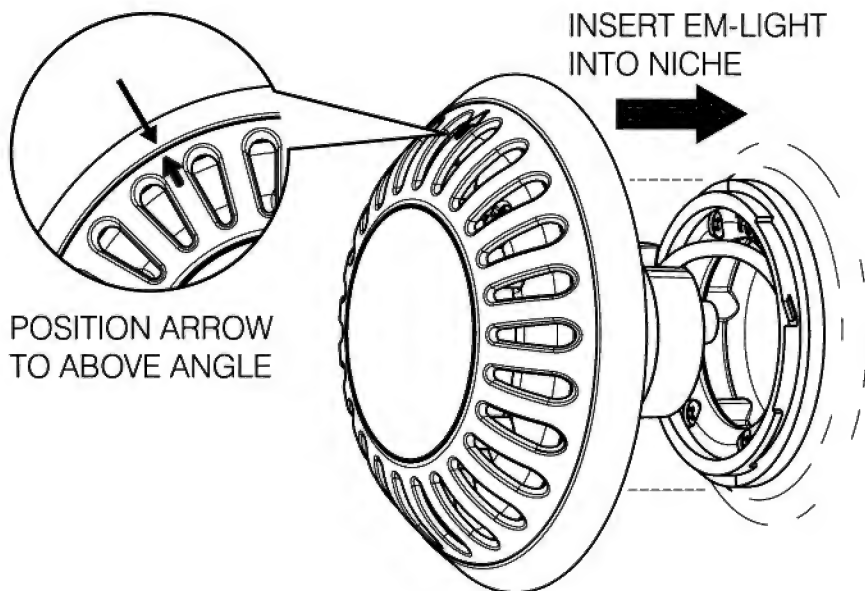
EM-LIGHT ASSEMBLY

MODEL: EMV

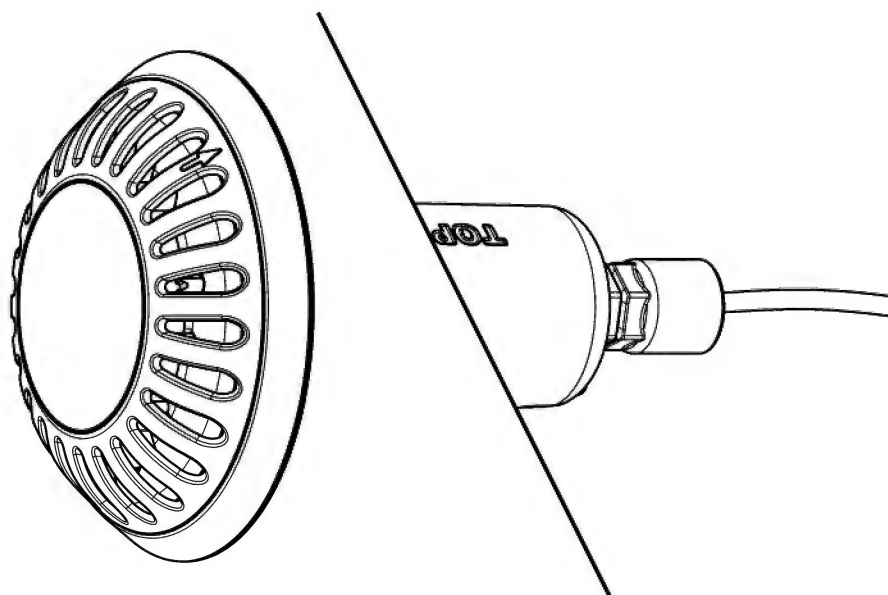
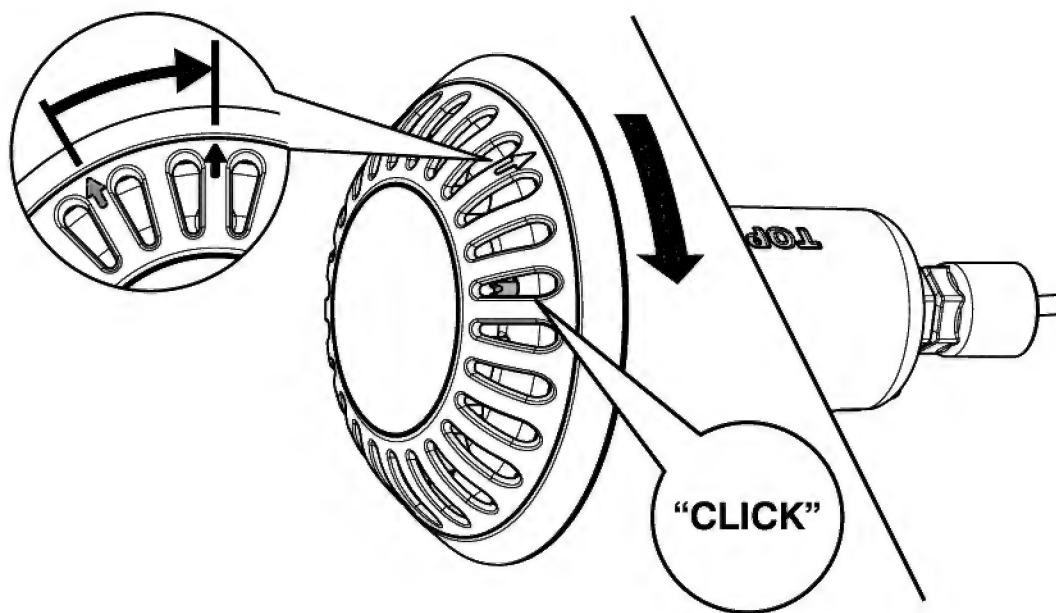
1



2



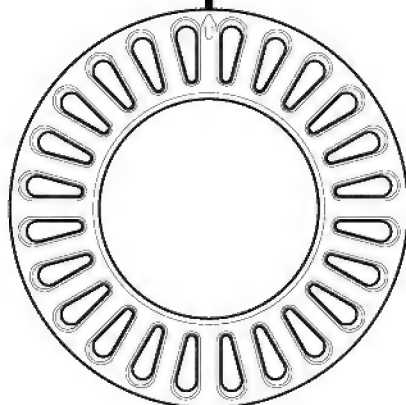
3



CONNECTIONS

HOW TO CONNECT SINGLE EM-LIGHT

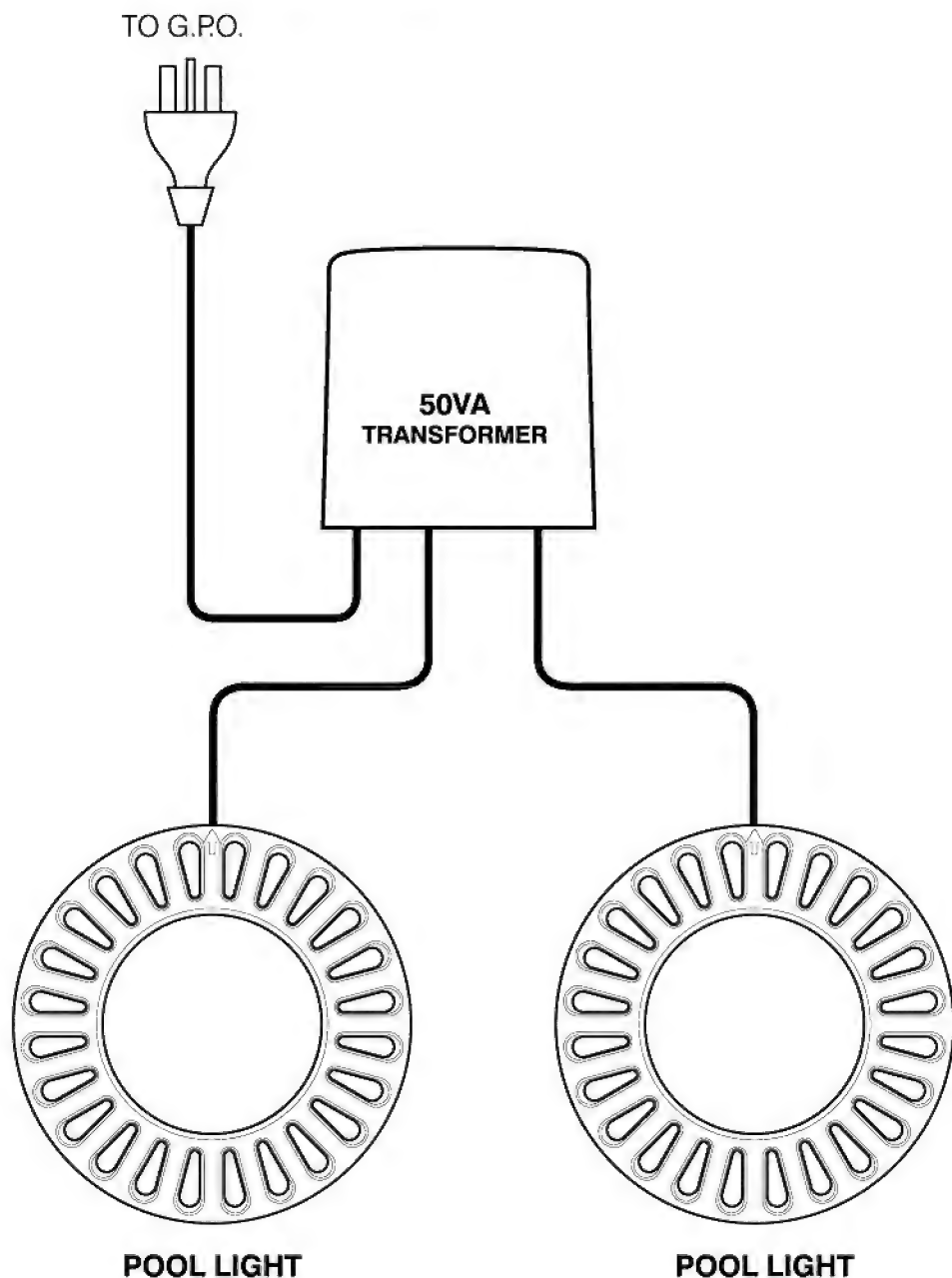
TO G.P.O.



POOL LIGHT

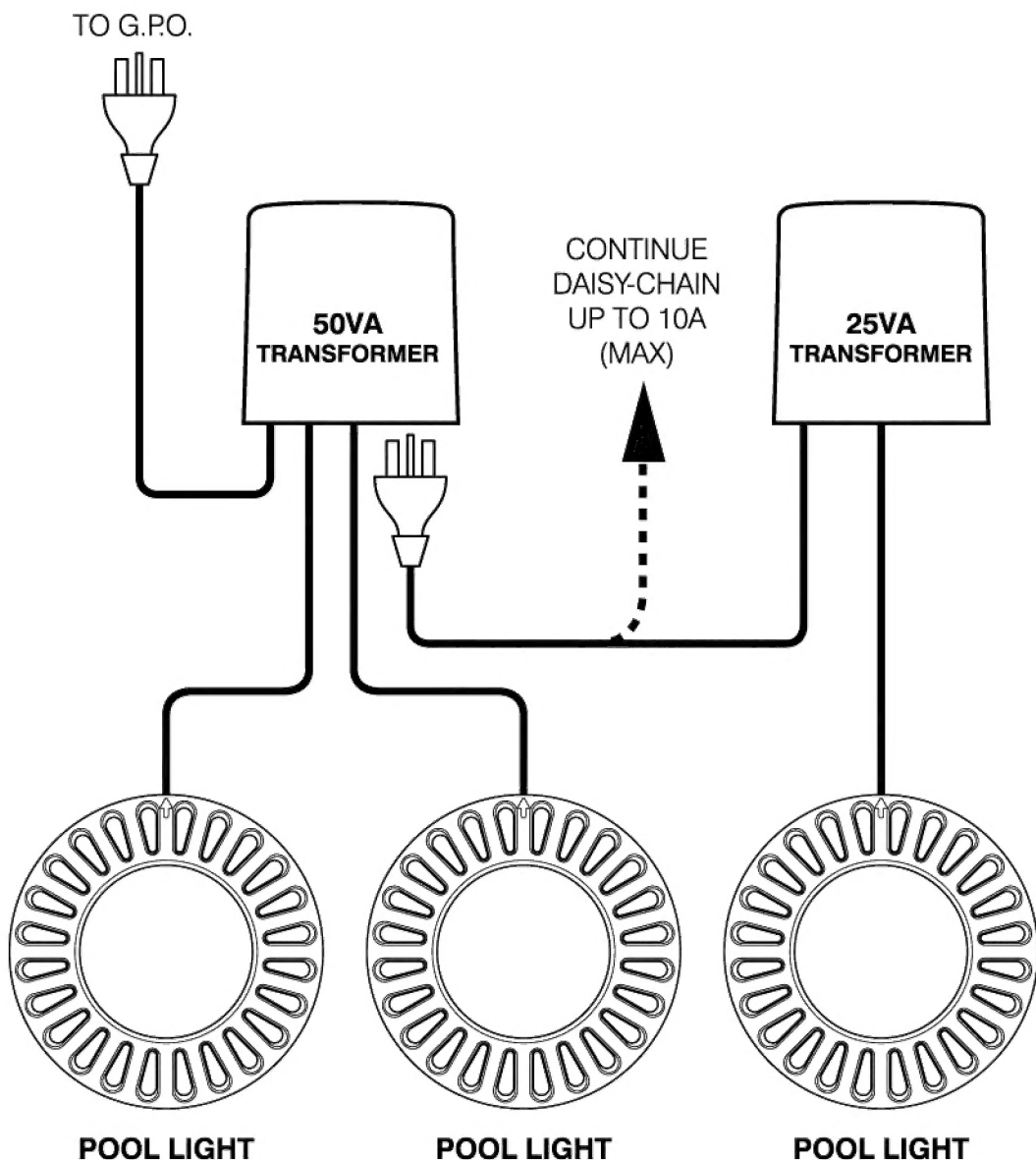
CONNECTIONS

HOW TO CONNECT MULTIPLE EM-LIGHTS



CONNECTIONS

HOW TO CONNECT MULTIPLE EM-LIGHTS



TROUBLESHOOTING

MODEL: EMF / EMV

ISSUE	REASON	ACTION
Light flashing Blue continuously	System is in "Reset" mode	Refer to multi-colour operating instructions
Light flashes 2 times	Light over heating	Check light is fully submerged Check vents are not obscured
Light colours not synchronised	Power interruptions or lights have been used individually	Reset lights - refer to multi-colour operating instructions
Light not operating (1)	Faulty connection to transformer	Ensure cable correctly connected to transformer terminals as per instructions
Light not operating (2)	Mains power not connected	Check transformer is plugged in to GPO and switched on
Light not operating (3)	Damaged cable	Replace cable
Light not operating (4)	Transformer not working	Check fuses & test transformer using multimeter under load (ie. 20W 12V)
Light not operating (5)	Damage caused by high voltage and/or incorrect power supply.	Return product to Spa Electrics for repair

If these issues cannot be resolved with the above recommended actions, please contact your distributor or Spa Electrics.

YOUR INSTALLATION

PLEASE RECORD THE DETAILS OF YOUR INSTALLATION FOR FUTURE REFERENCE

DATE OF PURCHASE

YOUR EM -SERIES LIGHT(S) WAS SUPPLIED BY:

DATE OF INSTALLATION

POOL BUILDER

EM -SERIES LIGHT(S) INSTALLED BY [FULL NAME]:

**NOTE**

PLEASE STORE THIS
MANUAL IN A SAFE PLACE
FOR FUTURE REFERENCE



www.spaelectrics.com.au

© COPYRIGHT 2012 SPA ELECTRICS PTY. LTD.
ALL RIGHTS RESERVED